Position Sensor Rectilinear







Features:

- · Contactless linear sensor
- · IP64 debris proof, splash proof
- · Ideal for hydraulic and pneumatic position sensing
- · Liquid level capability
- Upon request
- Male or female nicomatic connectors
- · Corresponding exterior magnet

Specifications:

Mechanical:

Life cycle : >1 million

Height : ≤3.50mm (0.138")

Actuation force : 0.09 to 0.11 lbs pull force at desired distance (pull force rating is for the exterior magnet using a

test plate of cold rolled steel)

Environmental:

Operating temperature : up to +85°C IP rating of active area : IP64

Electrical:

Resistance-standard : $10k\Omega$ (lengths >300mm = $20k\Omega$)

 $\begin{tabular}{lll} Resistance-custom & : 5k to 500k\Omega \\ Resistance tolerance & : <math>\pm 20\% \\ \end{tabular}$

Effective electrical travel : 8 to 1,200mm

Resolution : Depends on the exterior magnet strength and distance to the magnetoPot

Power rating : 0.5W continuous, 1W peak
Dielectric value : No affect at 500V AC for 1 minute

Independent linearity : ±5% (±1% available)

Hysteresis : 3mm*

Note: * The hysteresis is directly affected by the drive magnet size, strength, and distance from the internal magnet.

* Requires magnet.

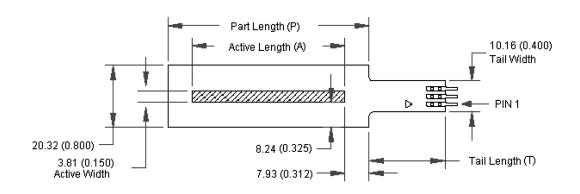




Position Sensor Rectilinear



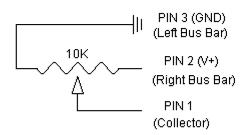
Stock Linear MagnetoPots



A	`	12.5 (0.492)	25 (0.984)	50 (1.969)	100 (3.937)	150 (5.906)	171.189 (6.768)	200 (7.874)	300 (11.811)	400 (15.748)	500 (19.685)	750 (29.528)	1,000 (39.37)
F	•	28.36 (1.117)	40.86 (1.609)	65.86 (2.593)	115.86 (4.562)	165.86 (6.531)	185.86 (7.318)	215.86 (8.499)	315.86 (12.436)	415.86 (16.373)	515.86 (20.31)	765.86 (30.153)	1015.86 (39.995)
T		12.7 (0.5)		24.89 (0.98)									

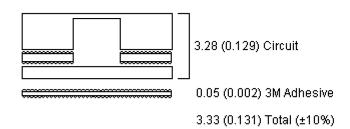
Dimensions: Millimetres (Inches)

Electrical Schematic



Dimensions: Millimetres (Inches)

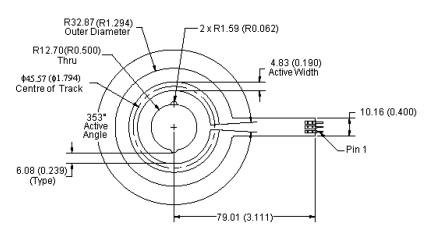
Material Cross-Section



Position Sensor Rectilinear

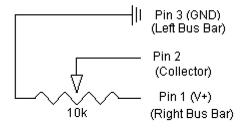


Stock Rotary MagnetoPots



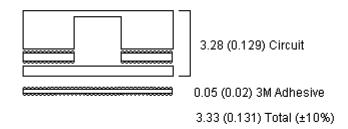
Dimensions: Millimetres (Inches)

Electrical Schematic



Dimensions: Millimetres (Inches)

Material Cross-Section



Part Number Table

Description	Part Number			
Sensor, Linear, Magneto, 25mm	MP1-L-0025-103-5%-ST			
Sensor, Linear, Magneto, 50mm	MP1-L-0050-103-5%-ST			
Sensor, Linear, Magneto, 100mm	MP1-L-0100-103-5%-ST			
Sensor, Linear, Magneto, 150mm	MP1-L-0150-103-5%-ST			
Sensor, Linear, Magneto, 300mm	MP1-L-0300-103-5%-ST			
Sensor, Linear, Magneto, 500mm	MP1-L-0500-103-5%-ST			
Sensor, Linear, Magneto, Rotary	MP1-R-0046-353-103-5%-ST			

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